

Voltage converter from 20-120V to 12V, 25A, 300W, IP68

Reference: AM0712
EAN13: -
HS code: 85044090



Product attributes:

Product features:

Input voltage: 20-120 V DC
Output voltage: 12 V DC
Output current: 25 A
Output power: 300 W
Waterproof grade: IP68
Lifetime: 100,000 hours

Product description:

The DC/DC voltage converter is designed for stable conversion of input DC voltage in the range of 20 to 120 V DC to output 12 V DC. The device is suitable for powering 12V electronics, automotive, industrial and mobile applications where higher resistance to external influences, stable output voltage and high current carrying capacity are required. The aluminum design with fins supports effective heat dissipation and IP68 protection allows use even in more demanding operating conditions.

Technical specifications

- Device type: DC/DC voltage converter
- Input voltage: 20-120V DC
- Output voltage: 12V DC
- Maximum output current: 25 A
- Maximum output power: 300 W
- Efficiency: 95.3%
- No-load current consumption: max. 100 mA
- Protection: IP68
- Working temperature: -40 to +80 °C
- Ambient humidity: 0-95%
- Dimensions: 100 × 80 × 39 mm
- Weight: 500g
- Construction: aluminum housing with fins for heat dissipation
- Certification: CE, RoHS

Functions and features

- Stable conversion of a wide range of input DC voltage to 12 V DC
- Suitable for powering devices with higher current consumption up to 25 A
- Durable design with IP68 protection for use in environments with increased humidity and dust
- Aluminum body ensures mechanical durability and effective cooling
- Integrated overload protection
- Integrated surge protection
- Integrated overheating protection
- Integrated short circuit protection

Ideal for

- Powering 12V devices from high-voltage DC sources
- Industrial and technological applications
- Mobile and transportation systems
- Power supply for LED lighting, control units and other 12V electronics
- For use outdoors and in more demanding operating conditions

Package contents

- 1 × DC 20-120 V to 12 V voltage converter, 25 A, 300 W, IP68

Why choose this product?

- Wide input range allows use in various DC systems
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- 12 V DC output is suitable for common industrial and mobile applications
- High output current of 25 A allows powering more power-intensive devices
- Rugged IP68 design supports reliable operation even in harsh environments
- Compact dimensions make it easy to integrate into existing systems
- Protective functions increase the operational safety of the connected device

Installation and operating instructions

- Before connecting, verify the correct polarity of the input and output wires.
- Install the device in such a way that sufficient heat dissipation from the surface of the inverter is possible.
- During long-term operation near maximum power, we recommend taking into account the ambient temperature conditions and conductor sizing.
- The input voltage must be within the specified range of 20–120 V DC.
- Do not overload the output beyond the maximum current of 25 A.

Safety notice

- The device operates with an input voltage of up to 120 V DC, which can be dangerous if handled incorrectly.
- We recommend that installation and connection be carried out by a qualified person.
- Always disconnect the power supply before making any connections.
- Use the inverter only as intended and within the specified electrical parameters.

